

Operating Experience of Black Liquor Desilication at APPM-Unit: Coastal

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ABSTRACT

The black liquor de-silication plant is established at The Andhra Pradesh Paper Mills Ltd., Rajahmundry Unit: Coastal Papers Ltd., Kadiam in East Godavari District of Andhra Pradesh. The Demo and Semi Commercial plant for de-silicating the black liquor generated from 30 tons of Rice Straw pulp per day was commissioned in March, 2007. This article deals with the commissioning experiences and the trouble shooting of the plant after commissioning.

Prior to the installation of the plant in depth pilot plant trials were conducted by CPPRI for finding out critical input parameters using their Pilot plant.

The de-silication is achieved by carbonation method of reducing the pH of black liquor to the precipitation level and separating them in conventional clarifiers by sedimentation process. The settled silica mud is pumped into a pressure filter for getting higher dryness before disposing. The de-silicated black liquor is being concentrated to 30- 35% BLS and sent to APPM by tankers for alkali recovery along with their black liquor.

At the moment, 70% de-silication is being achieved and still some more fine tuning and trouble shooting activities are to be carried out.